Review Worksheet Name:

Geometry – 9/10/09

1. In your own words, what is a variable?
2. What is the difference between an equation and an expression in Algebra?

Solve for x.

1. 2x + 5 = 15
2. 6x + 5 – 2x = 8x – 20
3. 2(x+4) = 5x + 14
4. 3x+10>28
5. |x+1|=5
6. 3x+1>6x+10
7. |x+1|>3
8. 3x-4<-2x+6
9. 2x+3<5
10. Find the slope of a line through (6,4) and (-3,-7).
11. Find the equation of the line through (-5,2) and with m=1/3.
12. Given two points (2, 3), (4, 1), find the equation of the line passing through the points.
13. Given the equation 8*x* − 2*y* = 6 . Plot and label four points to graph the line
14. Great Oaks State Park charges $10.00 admission to its camping area and $1.50 per night for a campsite.
    1. Write an equation to represent the total cost, C, of camping at Great Oaks for the number of nights, ***n***.
    2. Jamal camps at Great Oaks for 3 nights. What is his total cost? Use mathematics to explain how you determined your answer. Use words, symbols, or both in your explanation.
    3. Jeremiah has $31.00. What is the maximum number of nights she can camp at Great Oaks? Use mathematics to explain how you determined your answer. Use words, symbols, or both in your explanation.
15. Joe is earning extra money this summer delivering coupons for A&M Catering. He is being paid $0.15 for each coupon he delivers.
    1. Write an equation to determine Joe’s earnings, *E*, from delivering coupons in terms of the number of coupons, *x,* that he delivers.
    2. If Joe earns exactly $24.90 from delivering coupons, how many coupons did he deliver? Use mathematics to explain how you determined your answer. Use words, symbols, or both in your explanation.
16. The regular price of a refrigerator is $1100. It is going to be discounted by 20%. What is the discounted (sale) price?
17. Three times the largest of four consecutive odd integers is three less than four times the smallest of the four consecutive odd integers. What is the smallest of the four consecutive odd integers?
18. Phil T. Rich put together a large bowl full of many pieces of candy. Phil knew that the bowl contained 400 pieces of **red** candy. After the candies were thoroughly stirred and mixed, he randomly withdrew 40 pieces of candy, of which 5 were **red**. Approximately how many pieces of candy were in the bowl before Phil drew out any pieces?